



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/659,324
Source: oide
Date Processed by STIC: 9-22-03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/659,324

DATE: 09/22/2003
TIME: 13:10:52

Input Set : A:\pto.yf.txt
Output Set: N:\CRF4\09222003\J659324.raw

3 <110> APPLICANT: Birger Sorensen
5 <120> TITLE OF INVENTION: HIV Peptides, antigens, vaccine compositions, immunoassay
kit and a
6 method of
7 detecting antibodies induced by HIV.
9 <130> FILE REFERENCE: 2833.4001LO
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/659,324
12 <141> CURRENT FILING DATE: 2003-09-11
14 <150> PRIOR APPLICATION NUMBER: US 09/674,674
15 <151> PRIOR FILING DATE: 2001-07-25
17 <160> NUMBER OF SEQ ID NOS: 49
19 <170> SOFTWARE: PatentIn Ver. 3.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 20
23 <212> TYPE: PRT
24 <213> ORGANISM: artificial sequence
26 <220> FEATURE:
28 <223> OTHER INFORMATION: synthetic peptide
30 <220> FEATURE:
32 <221> NAME/KEY: VARIANT
33 <222> LOCATION: 1
34 <223> OTHER INFORMATION: Xaa in position 1 is Lys or Arg
36 <220> FEATURE:
38 <221> NAME/KEY: VARIANT
39 <222> LOCATION: 2
40 <223> OTHER INFORMATION: Xaa in position 2 is Ala, Gly, Ser or Arg
42 <220> FEATURE:
44 <221> NAME/KEY: VARIANT
45 <222> LOCATION: 3
46 <223> OTHER INFORMATION: Xaa in position 3 is Leu or Met
48 <220> FEATURE:
50 <221> NAME/KEY: VARIANT
51 <222> LOCATION: 4
52 <223> OTHER INFORMATION: Xaa in position 4 is Gly or Arg
54 <220> FEATURE:
56 <221> NAME/KEY: VARIANT
57 <222> LOCATION: 5
58 <223> OTHER INFORMATION: Xaa in position 5 is Pro, Thr, Val, Ser, Gln or Ala
60 <220> FEATURE:
62 <221> NAME/KEY: VARIANT
63 <222> LOCATION: 6
64 <223> OTHER INFORMATION: Xaa in position 6 is Gly, Ala, Lys, Arg, Gln or Glu
66 <220> FEATURE:
68 <221> NAME/KEY: VARIANT

**Does Not Comply
Corrected Diskette Needed**

P. 2, 6

RAW SEQUENCE LISTING

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Input Set : A:\pto.yf.txt

Output Set: N:\CRF4\09222003\J659324.raw

69 <222> LOCATION: 8
 70 <223> OTHER INFORMATION: Xaa in position 8 is Thr or Ser
 72 <220> FEATURE:
 74 <221> NAME/KEY: VARIANT
 75 <222> LOCATION: 9
 76 <223> OTHER INFORMATION: Xaa in position 9 is Leu or Ile
 78 <220> FEATURE:
 80 <221> NAME/KEY: VARIANT
 81 <222> LOCATION: 14
 82 <223> OTHER INFORMATION: Xaa in position 14 is Thr, Ser or Val
 84 <220> FEATURE:
 86 <221> NAME/KEY: VARIANT
 87 <222> LOCATION: 15
 88 <223> OTHER INFORMATION: Xaa in position 15 is Ala or Ser
 91 <220> FEATURE:
 93 <221> NAME/KEY: VARIANT
 94 <222> LOCATION: 16
 95 <223> OTHER INFORMATION: Xaa in position 16 is Cys or Ser
 97 <220> FEATURE:
 99 <221> NAME/KEY: DISULFID
 100 <222> LOCATION: 16
 101 <223> OTHER INFORMATION: disulfide, optional
 103 <220> FEATURE:
 105 <221> NAME/KEY: VARIANT
 106 <222> LOCATION: 17
 107 <223> OTHER INFORMATION: Xaa in position 17 is Gln or Leu
 109 <220> FEATURE:
 111 <221> NAME/KEY: VARIANT
 112 <222> LOCATION: 18
 113 <223> OTHER INFORMATION: Xaa in position 18 is Gly, Glu or Arg
 115 <220> FEATURE:
 117 <221> NAME/KEY: VARIANT
 118 <222> LOCATION: 20
 119 <223> OTHER INFORMATION: Xaa in position 20 is Gly or Arg
 121 <400> SEQUENCE: 1

Xaa can only be an amino-acid

W--> 122 Xaa Xaa Xaa Xaa Xaa Xaa Ala Xaa Xaa Gln Thr Pro Trp Xaa Xaa Xaa

123 1 5 10 15

125 Xaa Xaa Val Xaa

126 20

128 <210> SEQ ID NO: 2

129 <211> LENGTH: 20

130 <212> TYPE: PRT

131 <213> ORGANISM: artificial sequence

133 <220> FEATURE:

135 <223> OTHER INFORMATION: synthetic peptide

137 <220> FEATURE:

139 <221> NAME/KEY: DISULFID

140 <222> LOCATION: 16

141 <223> OTHER INFORMATION: disulfide, optional, can form a homodimer with another SEQ

ID NO 2 or a

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Input Set : A:\pto.yf.txt

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```

142      heterodimer
143      with SEQ ID NO 5
145 <400> SEQUENCE: 2
146 Lys Ala Leu Gly Pro Gly Ala Thr Leu Gln Thr Pro Trp Thr Ala Cys
147 1          5          10          15
149 Gln Gly Val Gly
150          20
152 <210> SEQ ID NO: 3
153 <211> LENGTH: 20
154 <212> TYPE: PRT
155 <213> ORGANISM: artificial sequence
157 <220> FEATURE:
159 <223> OTHER INFORMATION: synthetic peptide
161 <400> SEQUENCE: 3
162 Arg Ala Leu Gly Pro Ala Ala Thr Leu Gln Thr Pro Trp Thr Ala Ser
163 1          5          10          15
165 Leu Gly Val Gly
166          20
168 <210> SEQ ID NO: 4
169 <211> LENGTH: 25
170 <212> TYPE: PRT
171 <213> ORGANISM: artificial sequence
173 <220> FEATURE:
175 <223> OTHER INFORMATION: synthetic peptide
177 <220> FEATURE:
179 <221> NAME/KEY: VARIANT
180 <222> LOCATION: 1
181 <223> OTHER INFORMATION: Xaa in position 1 is Arg, Lys, Asp or missing
183 <220> FEATURE:
185 <221> NAME/KEY: VARIANT
186 <222> LOCATION: 2
187 <223> OTHER INFORMATION: Xaa in position 2 is Trp, Gly, Lys or Arg
189 <220> FEATURE:
191 <221> NAME/KEY: VARIANT
192 <222> LOCATION: 3
193 <223> OTHER INFORMATION: Xaa in position 3 is Ile, Leu, Val or Met
195 <220> FEATURE:
197 <221> NAME/KEY: VARIANT
198 <222> LOCATION: 4
199 <223> OTHER INFORMATION: Xaa in position 4 is Ile, Val or Leu
201 <220> FEATURE:
203 <221> NAME/KEY: VARIANT
204 <222> LOCATION: 5
205 <223> OTHER INFORMATION: Xaa in position 5 is Leu, Met, Val or Pro
207 <220> FEATURE:
209 <221> NAME/KEY: VARIANT
210 <222> LOCATION: 12
211 <223> OTHER INFORMATION: Xaa in position 12 is Gly or missing
213 <220> FEATURE:

```

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215 <221> NAME/KEY: VARIANT
 216 <222> LOCATION: 13
 217 <223> OTHER INFORMATION: Xaa in position 13 is Gly or missing
 219 <220> FEATURE:
 221 <221> NAME/KEY: VARIANT
 222 <222> LOCATION: 14
 223 <223> OTHER INFORMATION: Xaa in position 14 is Gly or missing
 226 <220> FEATURE:
 228 <221> NAME/KEY: VARIANT
 229 <222> LOCATION: 15
 230 <223> OTHER INFORMATION: Xaa in position 15 is Arg or Lys
 232 <220> FEATURE:
 234 <221> NAME/KEY: VARIANT
 235 <222> LOCATION: 16
 236 <223> OTHER INFORMATION: Xaa in position 16 is Met or Leu
 238 <220> FEATURE:
 240 <221> NAME/KEY: VARIANT
 241 <222> LOCATION: 18
 242 <223> OTHER INFORMATION: Xaa in position 18 is Ser, Cys or Gln
 244 <220> FEATURE:
 246 <221> NAME/KEY: VARIANT
 247 <222> LOCATION: 20
 248 <223> OTHER INFORMATION: Xaa in position 20 is Thr, Val, Ile, Ser or Ala
 250 <220> FEATURE:
 252 <221> NAME/KEY: VARIANT
 253 <222> LOCATION: 21
 254 <223> OTHER INFORMATION: Xaa in position 21 is Ser, Gly or Thr
 256 <220> FEATURE:
 258 <221> NAME/KEY: VARIANT
 259 <222> LOCATION: 24
 260 <223> OTHER INFORMATION: Xaa in position 24 is Asp, Glu, Cys or Gly
 262 <220> FEATURE:
 264 <221> NAME/KEY: DISULFID
 265 <222> LOCATION: 24
 266 <223> OTHER INFORMATION: disulfide, optional
 268 <220> FEATURE:
 270 <221> NAME/KEY: VARIANT
 271 <222> LOCATION: 25
 272 <223> OTHER INFORMATION: Xaa in position 25 is Gly or missing
 275 <400> SEQUENCE: 4
 W--> 276 Xaa Xaa Xaa Xaa Xaa Gly Leu Asn Pro Leu Val Xaa Xaa Xaa Xaa Xaa
 277 1 5 10 15
 279 Tyr Xaa Pro Xaa Xaa Ile Leu Xaa Xaa
 280 20 25
 282 <210> SEQ ID NO: 5
 283 <211> LENGTH: 24
 284 <212> TYPE: PRT
 285 <213> ORGANISM: artificial sequence
 287 <220> FEATURE:

RAW SEQUENCE LISTING

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TIME: 13:10:52

Input Set : A:\pto.yf.txt

Output Set: N:\CRF4\09222003\J659324.raw

289 <223> OTHER INFORMATION: synthetic peptide
 291 <220> FEATURE:
 293 <221> NAME/KEY: DISULFID
 294 <222> LOCATION: 23
 295 <223> OTHER INFORMATION: disulfide, optional, can form homodimer with another SEQ ID

NO 5 or a
 296 heterodimer
 297 with SEQ ID NO 2
 300 <400> SEQUENCE: 5
 301 Trp Ile Ile Pro Gly Leu Asn Pro Leu Val Gly Gly Gly Lys Leu Tyr
 302 1 5 10 15
 304 Ser Pro Thr Ser Ile Leu Cys Gly
 305 20
 307 <210> SEQ ID NO: 6
 308 <211> LENGTH: 24
 309 <212> TYPE: PRT
 310 <213> ORGANISM: artificial sequence
 312 <220> FEATURE:
 314 <223> OTHER INFORMATION: synthetic peptide
 316 <400> SEQUENCE: 6
 317 Arg Trp Leu Leu Gly Leu Asn Pro Leu Val Gly Gly Gly Arg Leu
 318 1 5 10 15
 320 Tyr Ser Pro Thr Ser Ile Leu Gly
 321 20
 323 <210> SEQ ID NO: 7
 324 <211> LENGTH: 23
 325 <212> TYPE: PRT
 326 <213> ORGANISM: artificial sequence
 328 <220> FEATURE:
 330 <223> OTHER INFORMATION: synthetic peptide
 332 <400> SEQUENCE: 7
 333 Lys Ile Leu Leu Gly Leu Asn Pro Leu Val Gly Gly Gly Arg Leu Tyr
 334 1 5 10 15
 336 Ser Pro Thr Ser Ile Leu Gly
 337 20
 339 <210> SEQ ID NO: 8
 340 <211> LENGTH: 23
 341 <212> TYPE: PRT
 342 <213> ORGANISM: artificial sequence
 344 <220> FEATURE:
 346 <223> OTHER INFORMATION: synthetic peptide
 348 <400> SEQUENCE: 8
 349 Arg Leu Leu Leu Gly Leu Asn Pro Leu Val Gly Gly Gly Arg Leu Tyr
 350 1 5 10 15
 352 Ser Pro Thr Thr Ile Leu Gly
 353 20
 355 <210> SEQ ID NO: 9
 356 <211> LENGTH: 27
 357 <212> TYPE: PRT
 358 <213> ORGANISM: artificial sequence

9/22/03

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/659,324

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Input Set : A:\pto.yf.txt
 Output Set: N:\CRF4\09222003\J659324.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,3,4,5,6,8,9,14,15,16,17,18,20
 Seq#:4; Xaa Pos. 1,2,3,4,5,12,13,14,15,16,18,20,21,24,25
 Seq#:9; Xaa Pos. 1,2,3,7,8,9,10,11,12,14,15,16,17,18,19,20,21,22,23,24,25
 Seq#:9; Xaa Pos. 26,27
 Seq#:15; Xaa Pos. 1,2,5,6,7,8,9,11,13,14,15,16,17,18,19,20,21,22,23,24,25
 Seq#:15; Xaa Pos. 26,27,28,29,30,31
 Seq#:16; Xaa Pos. 6,21
 Seq#:17; Xaa Pos. 6
 Seq#:18; Xaa Pos. 6
 Seq#:19; Xaa Pos. 5
 Seq#:20; Xaa Pos. 5
 Seq#:25; Xaa Pos. 5,20
 Seq#:32; Xaa Pos. 21,22
 Seq#:33; Xaa Pos. 11

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:2; Line(s) 147

VERIFICATION SUMMARY

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Input Set : A:\pto.yf.txt

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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
M:341 Repeated in SeqNo=1
L:276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
M:341 Repeated in SeqNo=4
L:503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
M:341 Repeated in SeqNo=9
L:775 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
M:341 Repeated in SeqNo=15
L:809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
M:341 Repeated in SeqNo=16
L:837 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:881 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:912 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (21) SEQUENCE:
L:917 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (22) SEQUENCE:
L:922 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (23) SEQUENCE:
L:974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
M:341 Repeated in SeqNo=25
L:1089 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:16
L:1121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0